Anton Caushaj

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EDUCATION

Bachelor of Science (Honours) in Computer Science

Lassonde School of Engineering, York University · Toronto, Ontario · Cumulative GPA: 3.6/4.0
· Expected Graduation: September 2026

EXPERIENCE

Data Engineering / Analytics Intern (E-commerce Analytics)
Hudson's Bay Company   **May 2024 – September 2024, Toronto, Ontario**

· Analyzed e-commerce sales data using Python and SQL, resulting in actionable insights that improved inventory turnover rates by 15% and enhanced promotional strategies across 50 product categories.
· Developed automated ETL pipelines utilizing Apache Spark and PostgreSQL, significantly accelerating data processing speed by 30% and enabling real-time analytics for e-commerce operations.
· Enhanced data visualization by implementing Tableau dashboards, which drove a 25% increase in cross-team collaboration and faster decision making processes for marketing and sales departments.

Systems Analyst Intern
Raiffeisen Bank   **June 2023 – September 2023, Tirana**

· Assessed and streamlined IT workflows, improving system efficiencies by 25% through automation solutions using Python and SQL.
· Conducted data analysis to uncover customer behavior patterns, increasing predictive model accuracy by 20% using clustering and classification techniques (R, SQL).
· Applied business intelligence strategies to improve system uptime and resource allocation.

Lifeguard & Guest Experience Associate
Ink Entertainment   **April 2024 – Present, Toronto, Ontario**

· Orchestrated engaging events and guest interactions, elevating the overall visitor experience and boosting customer satisfaction.
· Delivered professional first aid and CPR care during high-stress emergencies, ensuring guest safety and well-being.
· Directed poolside activities and guest engagement initiatives, significantly improving visitor enjoyment and retention at high-traffic events.

TECHNICAL PROJECTS

Parking Management System | Java, Swing, MySQL, Power BI

York University · February 2025 – June 2025
· Developed a full-stack Java application with graphical interface to manage parking reservations, and incorporated license plate recognition for verification and account-based user management.
· Applied six OOP design patterns (Factory, Adapter, Strategy, Singleton, Decorator, MVC) for modularity and scalability, created UML diagrams and software documentation for system architecture, user interaction, and design rationale.

Customer Churn Prediction Model | Python, Scikit-learn, SQL, Tableau, Excel

April 2024 – September 2024
· Built a machine learning classification model using Scikit-learn and Pandas to predict churn, improving retention strategies.
· Processed large-scale customer datasets with SQL and Excel for trend analysis and segmentation, developed Tableau dashboards for stakeholder reporting; model achieved 85% accuracy.

Blockchain-Based Voting System | Solidity, Java, SQL, Web3J, Ethereum

May 2025 – June 2025
· Designed and implemented a secure, decentralized voting system using Solidity and Ethereum blockchain.
· Developed smart contracts to prevent vote tampering and ensure transparency.
· Enabled Java-Blockchain interaction via Web3J API and managed election data using SQL.
· Optimized blockchain gas fees and transaction efficiency by 30%, delivering near real-time vote verification.

SKILLS

Data & Analytics: SQL, Python, Tableau, Scikit-learn, Apache Spark
Web & Backend Dev: Java, MySQL, REST APIs, Web3J
Dev Tools & Cloud: Git, AWS S3, Google Cloud, Docker
Languages Spoken: English, French, Albanian, Spanish
Certifications: AWS Cloud Practitioner (Foundational), AWS Machine Learning Engineer (Associate), Intro to Microsoft 365 & Azure
Extra Curriculars: Participant in the 2024 Hack the North Hackathon, Member of YorkU Data Science Club, Former Competitive Soccer Player